PROMOPHARM × ENDOVISION

DUAL PATTY

Hemostatic hydrofiber surgical patty

Protecting vessels and nerves during surgery — neurosurgery, spine surgery, ENT and vascular surgery.

Product presentation — for Hospital Pharmacy

Promopharm SA · 9 rue du Chemin de Fer, L-8057 Bertrange, Luxembourg · August 2026



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01 · OVERVIEW

A new-generation surgical patty

Dual Patty is a hydrofiber patty developed by Endovision (South Korea), designed to absorb blood and exudate while gently protecting vessels and nerves — in neurosurgery, spine, joint and ENT surgery.

12x	9	CE 0068
absorption vs. its own weight	sizes (0.6 to 15.2 cm)	ISO 13485:2016 · GMP

Key benefits

- High absorption, customizable size and shape
- Easy flexibility, minimized particle shedding
- Easy removal, easy suction, stable adherence
- Continuous clear surgical view

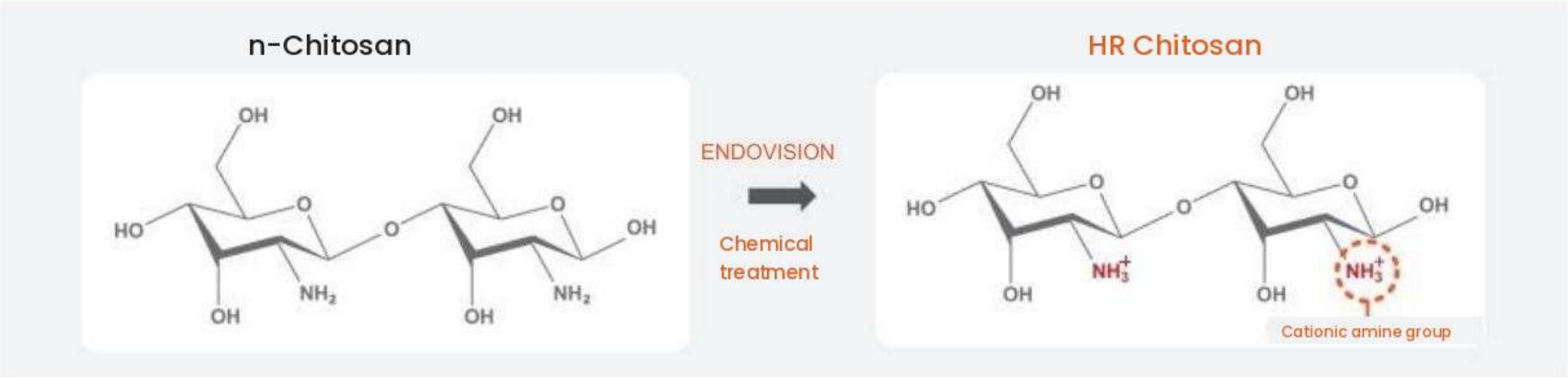


Packaging

Boxes of 10 x 10 units (or 1 x 10 for the large size), individual sterile pouches ready to use in the operating room.

Manufacturer: Endovision Co., Ltd — Daegu, South Korea

HR-Chitosan: hydrogen-reinforced chitosan



Chemical process patented by Endovision: HR chitosan features enhanced positive charges that significantly improve hemostasis, antimicrobial activity, adsorption of toxic molecules, absorption and moisturizing effect — compared with standard chitosan (n-chitosan).

99.9%	Fast	-60%	20x	99.8%
Antibacterial	Hemostasis	Anti-inflammatory	Absorption	Deodorizing

Broad-spectrum antibacterial activity

99.9%

bacterial reduction measured for HR chitosan, consistently, against the 5 pathogens tested

E. coli · Pseudomonas aeruginosa · Staphylococcus aureus · MRSA · Candida albicans

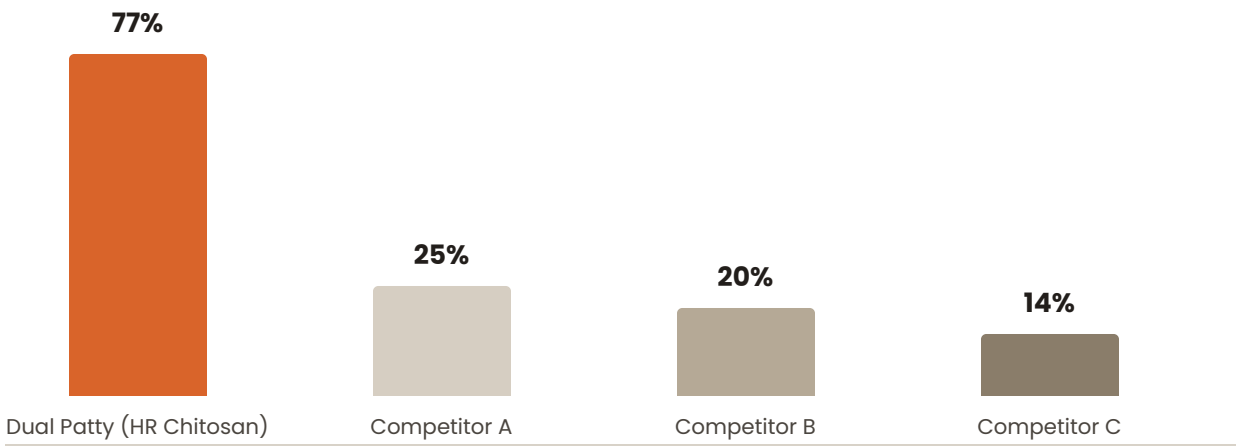
Pathogen	HR Chitosan	Standard Chitosan
Escherichia coli	**99.9%**	88.4%
Pseudomonas aeruginosa	**99.9%**	12.5%
Staphylococcus aureus	**99.9%**	8.3%
MRSA	**99.9%**	11.3%
Candida albicans	**99.9%**	91.3%

Data from Endovision in vitro testing (24h incubation). Context: reducing infection risk on direct contact with deep tissue.

Fast, superior hemostatic control

Blood Coagulation Index (BCI), driven by the interaction between HR chitosan's positive and negative charges and the blood.

Blood Coagulation Index (BCI) at 90 seconds



>65%

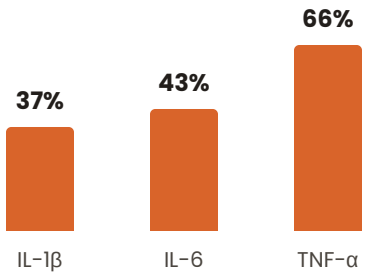
coagulation achieved within the first 15 seconds of application

Why this matters in the OR

- Faster clearing of the surgical field
- Fewer manipulations around nerve/vascular structures
- Easy removal without tissue tearing

Three more lab-measured benefits

Anti-inflammatory



Inflammatory cytokine expression reduced by up to -63% (control = 100%).

High absorption

20.6

grams absorbed per gram of product (g/g) — about 2x more than standard chitosan (10.1 g/g).

Enhanced moisturizing effect, minimized particle shedding on removal.

Toxin adsorption

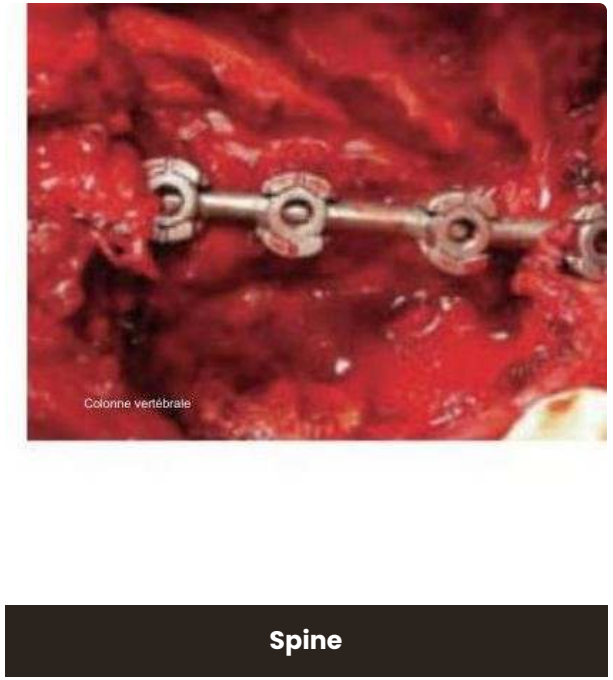
99.8%

of the ammonia generated by proteolysis can be neutralized (vs. 45.7% for standard chitosan).

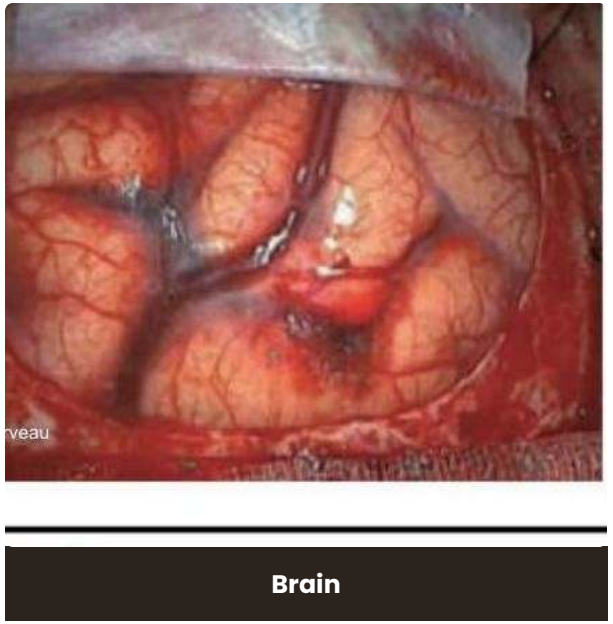
Significant reduction of toxic molecules in contact with the wound.

Source: Endovision technical documentation (in vitro comparative testing, HR chitosan vs. n-chitosan).

Targeted indications in high-risk surgery



Spine



Brain

Neurosurgery
Protection of cerebral nerve tissue, intracranial vascular surgery

Spine surgery
Decompression, disc herniation, spinal instrumentation

Joint & ENT surgery
Narrow surgical fields requiring fine hemostasis

Public institutions
Format suited to hospitals and military facilities

04 · PRODUCT RANGE

9 sizes to match every surgical procedure

Reference	Dimensions	Packaging
DPV0120012B	1.25 x 1.25 cm	Box of 10 x 10 units
DPV0120030B	1.25 x 3.00 cm	Box of 10 x 10 units
DPV0200020B	2.00 x 2.00 cm	Box of 10 x 10 units
DPV0200050B	2.00 x 5.00 cm	Box of 10 x 10 units
DPV0200075B	2.00 x 7.50 cm	Box of 10 x 10 units
DPV0120575B	1.25 x 7.50 cm	Box of 10 x 10 units
DPV0250075B	2.50 x 7.50 cm	Box of 10 x 10 units
DPV0060006B	0.60 x 0.60 cm	Box of 10 x 10 units
DPV0890152B	8.90 x 15.2 cm	Box of 1 x 10 units

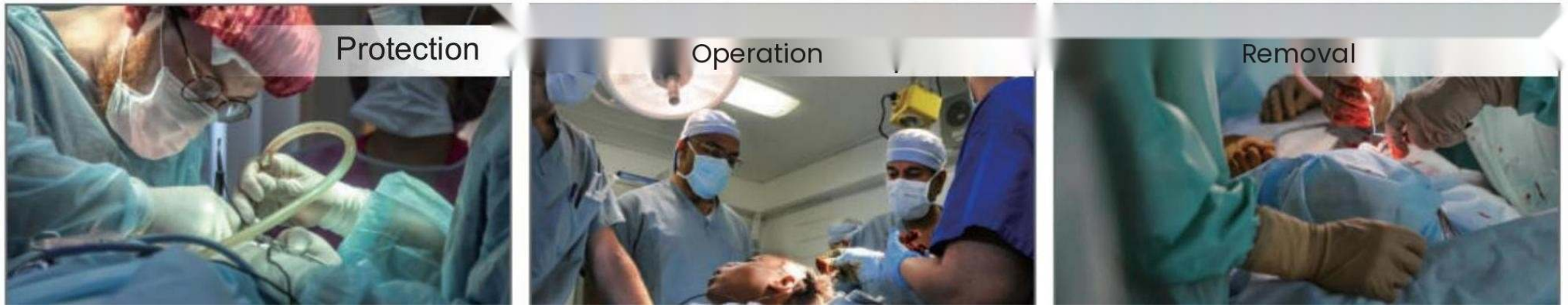
Registered trademark

DUAL PATTY

From the micro size (0.6 cm) for the finest procedures, to the large size (15.2 cm) for extended surgical fields.

All references are available to order through Promopharm SA, with samples on request.

Regulatory compliance suited to hospital use



CE 0068
CE marking, notified body 0068

ISO 13485:2016
Quality management system — medical devices

GMP
Good Manufacturing Practice

Manufacturer
Endovision Co., Ltd — 66-26 Dongnae-ro, Dong-gu, Daegu, South Korea

Distributor for Luxembourg & Greater Region
Promopharm SA — 9 rue du Chemin de Fer, L-8057 Bertrange, Luxembourg

WHY ADD DUAL PATTY TO YOUR FORMULARY

A proven solution, ready for your formulary

Safety
CE 0068, ISO 13485:2016, GMP — full regulatory compliance

Proven efficacy
99.9% antibacterial activity, fast hemostasis, comparative data

Full range
9 sizes from micro (0.6 cm) to large field (15.2 cm)

Suited to the public sector
Packaging and logistics designed for hospitals

Next steps

- Samples for OR evaluation
- Full technical file (declaration of conformity, IFU)
- Quote and supply terms

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